

2831



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## THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Galen M. Gareis  
CASE: 6500-1583.2  
SERIAL NO.: 09/765,914  
FILED ON: 01/18/01  
FOR: High Performance Data Cable

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) Art Unit: 2831  
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) Examiner.: Mayo  
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### CONFIRMATION COPY

Assistant Commissioner for Patents  
Washington D.C. 20231

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Name of person signing Terrt Dickinson

Signature 

#### AMENDMENT AND RESPONSE

On December 19, 2001, Appliant filed a complete response to the Office Action mailed June 21, 2002. Applicant requests the following additional amendments be entered.

#### In the Specification

Please amend the specification to amend the below paragraphs to read as shown. A version showing insertions and deletions is attached.

At page 4, the second full paragraph, lines 18-24; please delete the entire paragraph from the specification.

At page 4 and continuing to page 5, the third paragraph, lines 25-7; please delete the entire paragraph.

**In the Claims**

Please add new claim 11, 12, and 13 as shown below. A version of the claims showing insertions and deletions is attached.

11. A data cable having a plurality of twisted pair conductors and an interior support comprising:  
  
a longitudinally extending central portion forming a portion of said support;  
  
a plurality of projections radially extending from said central portion;  
  
each projection of said plurality of projections being adjacent to two other projections of said plurality of projections, said plurality of projections forming a plurality of adjacent projections;  
  
a different passage defined by each of said plurality of adjacent projections;  
  
only one twisted pair conductor from said plurality of twisted pair conductors disposed in each different passage defined by each of said plurality of adjacent splines;  
  
each twisted pair conductor having a first insulated electrical conductor and a second insulated electrical conductor, said first and second insulated conductors twisted about each other to form a twisted pair.
12. The cable of claim 11 wherein said passage is a passage selected from a group consisting of a channel, a groove, and a duct.
13. The cable of claim 11 wherein said projection is a projection selected from a group consisting of a prong, a spline, and an arm.

Remarks

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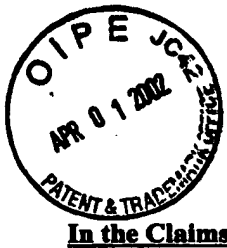
The present new claims 11, 12, and 13 are allowable over the cited prior art. None of cited prior art teaches the use of an interior support to space twisted pairs. Claims 11, 12, and 13 are allowable.

Respectfully submitted,

Date: May 19, 2002

By: 

Robert F. I. Conte  
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Attorney for Applicant



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### VERSION WITH MARKINGS TO SHOW CHANGES MADE

#### In the Claims

- 11. A data cable having a plurality of twisted pair conductors and an interior support comprising:
- a longitudinally extending central portion forming a portion of said support;
  - a plurality of projections radially extending from said central portion;
  - each projection of said plurality of projections being adjacent to two other projections of said plurality of projections, said plurality of projections forming a plurality of adjacent projections;
  - a different passage defined by each of said plurality of adjacent projections;
  - only one twisted pair conductor from said plurality of twisted pair conductors disposed in each different passage defined by each of said plurality of adjacent splines;
  - each twisted pair conductor having a first insulated electrical conductor and a second insulated electrical conductor, said first and second insulated conductors twisted about each other to form a twisted pair. --
- 12. The cable of claim 11 wherein said passage is a passage selected from a group consisting of a channel, a groove, and a duct.--
- 13. The cable of claim 11 wherein said projection is a projection selected from a group consisting of a prong, a spline, and an arm.--

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#### In the Specification

At page 4, second full paragraph, lines 18-24; please delete the entire paragraph from the specification as follows:

[Some cables have used supports in connection with twisted pairs. These cables, however, suggest using a standard "X" or "+" shaped support, hereinafter both referred to as the "X" support. The

standard "X" support is completely different than this support. Protrusions extend from the standard "X" support. These protrusions have substantially parallel sides.]

At page 4, and continuing to page 5, the third paragraph, lines 25-27 should be amended as follows:

[The prongs or splines in this invention provide a superior crush resistance to the protrusions of the standard "X" support. The superior crush resistance better preserves the geometry of the pairs relative to each other and of the pairs relative to the other parts of the cables such as the shield. In addition, the prongs or splines in this invention preferably have a pointed or slightly rounded apex top which easily accommodates an overall shield.]



6508-1583.2

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE APPLICATION OF

Galen M. Gareis

SERIAL NO: 09/765,914

FILED: 01/18/01

FOR: High Performance Data Cable

) Examiner: Mayo III, W.

)

) Group Art Unit: 2831

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) **Certificate of Mailing**

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Name of person signing Farterria G. DickinsonSignature [Signature]

Honorable Director of  
Patents and Trademarks  
Washington, D.C. 20231

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**INFORMATION DISCLOSURE STATEMENT**

We enclose herewith an Information Disclosure Statement, PTO Form A820, and the references listed therein.

Respectfully Submitted,

Mar 19, 2002

Date

Robert F.I. Conte

Registration No. 20,354

Lee, Mann, Smith, McWilliams, Sweeney,  
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**INFORMATION DISCLOSURE CITATION**  
*(Use several sheets if necessary)*

Docket Number (Optional)

6500-15

Application Number

09/765,914

Applicant(s)

Galen M. Gareis

Filing Date

01/18/01

Group Art Unit

2831

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,789,711	08/04/1998	Gaeris et al.			
		4,474,426	10/02/1984	Yataki			
		5,177,809	01/05/1993	Zeidler			
		5,969,295	10/19/1999	Boucino et al.			
		5,289,556	02/22/1994	Rawlyk et al.			
		6,150,612	11/21/2000	Grandy et al.			
		6,222,130	04/24/2001	Gareis et al.			

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*


EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.